

Abstract

A binder for releasably retaining loose-leaves. The binder has a front cover that lies flatly beneath its back cover when the binder is open 360 degrees. The rings of the binder can rotate around an edge of the flatly-folded cover to enable loose-leaves to lie flat above and below the cover. The binder also has a skeleton with a minimal cross-section spine which may be partially or completely embedded in a cover and rotates in relation to parallel front and back covers when the binder is open 360 degrees. The front cover, middle cover and back cover are connected in a way so that they do not interfere with the rotation of the rings. Mechanisms to open and close the rings of the skeleton to allow addition or removal of loose-leaves, and ring shapes to optimize or stabilize the capacity of the binder during operation are also disclosed.